

# Actionpac LNS5 DCP

## Actionpac LNS5 Damper Control Panel



### QUICK FACTS

- Flexible software allowing easy, last-minute, non-bespoke changes to fire strategies.
- Supports complex cause-and-effect scenarios.
- More panels can be networked together for large-scale building management.
- Includes an embedded computer with preloaded software, an uninterruptible power supply (UPS), and a digital input/output device (DIO).
- Easily integrates with Building Management Systems (BMS) via BACnet or RS485.

### ACTIONPAC LNS5 DAMPER CONTROL PANEL

Actionpac LNS5 is an addressable passive fire protection system for managing fire and smoke control dampers within HVAC (Heating, Ventilation, and Air Conditioning) systems.

The system supports complex cause-and-effect scenarios, such as customised zone containment, pressurisation, and smoke extraction.

The control panel consists of an embedded computer with preloaded software to communicate with damper interfaces, an uninterruptible power supply (UPS) to provide emergency power and control equipment shutdown, and a digital input/output device (DIO) to process digital input signals (from, for example, a fire alarm system or smoke detectors) and produce digital output signals (to, for example, fans or BMS systems).

Together, these components provide a reliable, integrated platform for managing fire and smoke damper operation in accordance with site-specific fire safety strategies.

## Technical Information

### Enclosure

|           |                                       |
|-----------|---------------------------------------|
| Material  | Mild steel                            |
| IP Rating | IP 30                                 |
| Finish    | RAL 7035<br>structured powder coating |

### Sizes

| Sizes | Dimensions, mm<br>(W x H x D) | Weights, kg<br>(approximate) |
|-------|-------------------------------|------------------------------|
| 1     | 500x500x210                   | 25                           |
| 2     | 600x600x210                   | 30                           |
| 3     | 600x800x210                   | 35                           |
| 4     | 800x800x210                   | 40                           |
| 5     | 800x1000x300                  | 55                           |

### Supply

|                           |                        |
|---------------------------|------------------------|
| Input Voltages            | (230 ± 23) V AC, 50 HZ |
| Maximum Power Consumption | 750 VA                 |

### Inputs

|               |                            |
|---------------|----------------------------|
| Contact Type  | Volt-free dry contacts     |
| Sense Current | 10 mA at 12 V DC per input |

### Outputs

|                       |                        |
|-----------------------|------------------------|
| Contact Type          | Volt-free dry contacts |
| Maximum Switched Load | 1 A at 24 V AC / DC    |

### Environmental

|                       |                                                         |
|-----------------------|---------------------------------------------------------|
| Operating Temperature | 0°C-40°C                                                |
| Storage Temperature   | -15°C-45°C                                              |
| Humidity              | 80% RH at 31°C decreasing linearly<br>to 50% RH at 40°C |
| Maximum Altitude      | 2000 m                                                  |

### Conformance

|                                     |                                                                                             |
|-------------------------------------|---------------------------------------------------------------------------------------------|
| Electromagnetic Compatibility (EMC) | EN 61000-6-1: 2016<br>EN 55011: 2009 + A1: 2010<br>EN 61000-3-2: 2014<br>EN 61000-3-3: 2013 |
| Low Voltage Directive (LVD)         | EN 61010-1: 2010 + Corr 1                                                                   |

## Maintenance

|                                  |                      |
|----------------------------------|----------------------|
| Mains Terminal Fuse Replacement  | 2 A T 250 VAC        |
| Output Terminal Fuse Replacement | 1 A T 250 VAC        |
| Suggested Replacement            | Bussmann S504 series |



*Indoor Use Only*

## Typical Network Schematic with SFDI-M Wiring Detail

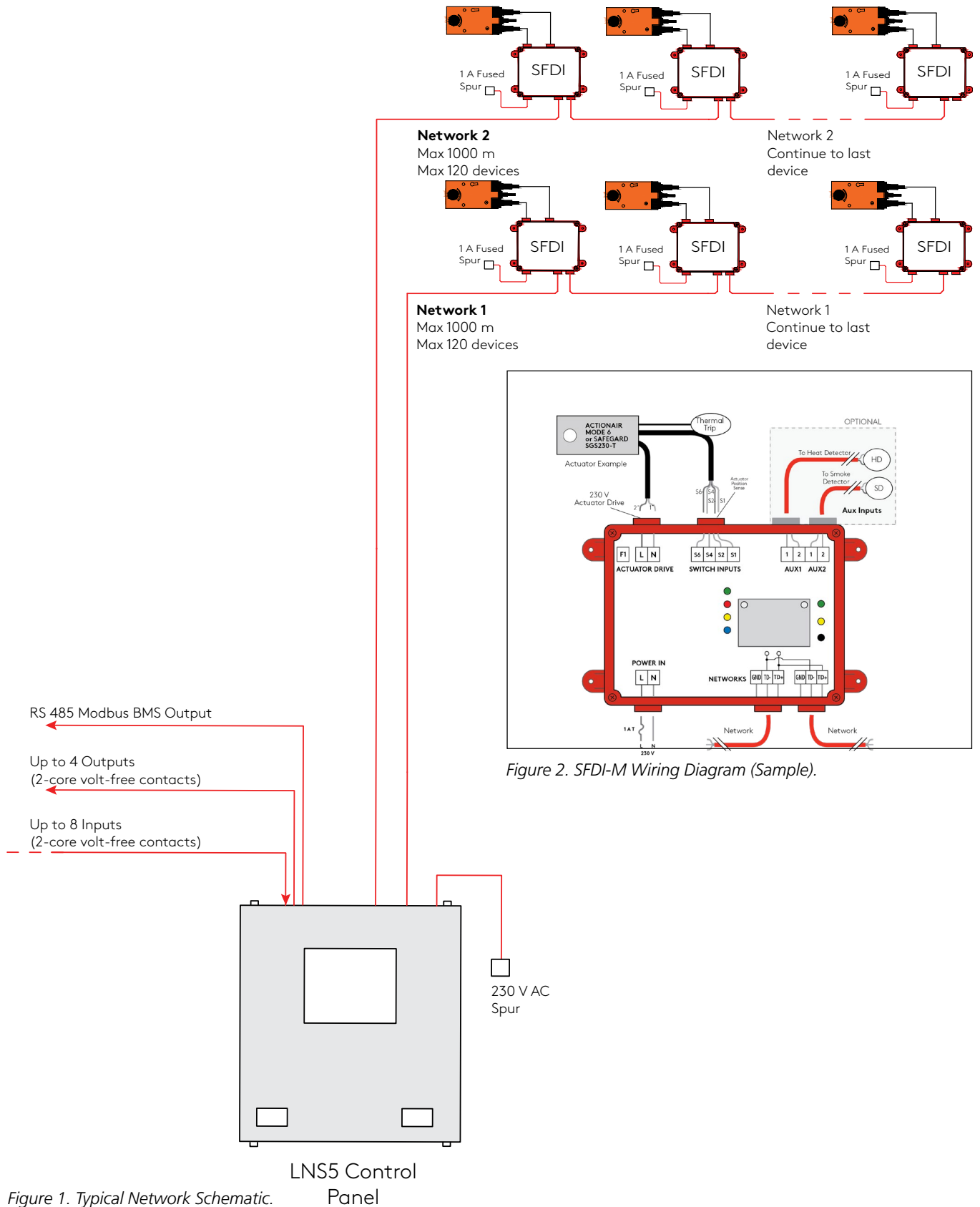


Figure 2. SFDI-M Wiring Diagram (Sample).

Figure 1. Typical Network Schematic.

## Disclaimers

- The information herein is subject to change without notice. Safegard Systems Ltd do not assume any liability arising out of the use of this product.
- Purchase of goods and services is subject to Safegard Systems Ltd Terms and Conditions.
- If not agreed otherwise, all wiring is by others.

## Related Documentation

- LNS5 Damper Control Panel Installation and Maintenance
- LNS5 User Guide
- Actionpac LNS5 Catalogue

## Warnings

- This product forms part of a life-safety system. Failure to correctly store, handle, install, and maintain the product will directly put at risk the lives of the occupants and the fabric of the building.
- The responsible body shall be made aware that, if the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.
- Unauthorised modifications to Safegard panels and devices are not allowed, and will render the warranty void.

## Safety Notes

- Only allow trained and qualified personnel to install, replace, or service this equipment.
- Adhere to the relevant local safety standards.
- The device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.